

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/016489

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl<sup>7</sup> G10L15/28

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> G10L15/28, H04N5/232, H04N5/225

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004

Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JTSPlus FILE (JOIS)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2-146600 A (Nippondenso Co., Ltd.), 05 June, 1990 (05.06.90), Full text; all drawings (Family: none)	1-4
Y	JP 4-299410 A (Nippon Telegraph And Telephone Corp.), 22 October, 1992 (22.10.92), Full text; all drawings (Family: none)	1-6
Y	JP 2000-200095 A (NEC Saitama, Ltd.), 18 July, 2000 (18.07.00), Full text; all drawings (Family: none)	1-4

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search  
31 January, 2005 (31.01.05)Date of mailing of the international search report  
15 February, 2005 (15.02.05)Name and mailing address of the ISA  
Japanese Patent Office

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Facsimile No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-318597 A (Alpine Electronics, Inc.), 31 October, 2002 (31.10.02), Full text; all drawings & US 2002/0120455 A1	5,6
Y	JP 9-149157 A (Casio Computer Co., Ltd.), 06 June, 1997 (06.06.97), Full text; all drawings & WO 1997/019401 A1 & US 5930372 A & EP 0807286 A1	7,8
Y	JP 2003-114697 A (Alpine Electronics, Inc.), 18 April, 2003 (18.04.03), Full text; all drawings (Family: none)	7,8
A	JP 2003-295899 A (Fujitsu Ltd.), 15 October, 2003 (15.10.03), Full text; all drawings & US 2003/0187640 A1 & EP 001349149 A2	1-8
A	JP 9-204290 A (NEC Corp.), 05 August, 1997 (05.08.97), Full text; all drawings (Family: none)	1-8
A	JP 2-232697 A (Nippondenso Co., Ltd.), 14 September, 1990 (14.09.90), Full text; all drawings (Family: none)	1-8
A	JP 2-254499 A (Aisin Seiki Co., Ltd.), 15 October, 1990 (15.10.90), Full text; all drawings (Family: none)	1-8